

Microbiology Essentials for Students

Microbiology · Practice Test · 25 Questions

1. Which tool is primarily used by scientists to view microorganisms that are too small for the human eye to see?

- A) Telescope
- B) Microscope
- C) Magnifying glass
- D) Periscope

2. Which type of microorganism is used in the process of making bread rise?

- A) Bacteria
- B) Virus
- C) Yeast
- D) Algae

3. Bacteria are classified as which of the following?

- A) Single-celled organisms
- B) Multi-celled animals
- C) Plants
- D) Fungi

4. What is the main purpose of a vaccine?

- A) To clean surfaces
- B) To help the body recognize and fight specific pathogens
- C) To grow more bacteria
- D) To make viruses stronger

5. Which of the following is considered a beneficial function of bacteria in the human body?

- A) Causing colds
- B) Aiding in digestion
- C) Creating oxygen
- D) Making skin color

6. Which kingdom do mushrooms belong to?

- A) Bacteria
- B) Protista
- C) Fungi
- D) Animalia

7. What substance do plants, including some microscopic algae, produce as a byproduct of photosynthesis?

- A) Carbon dioxide
- B) Oxygen
- C) Methane
- D) Nitrogen

8. Antibiotics are medicines specifically designed to kill or inhibit the growth of what?

- A) Viruses
- B) Bacteria
- C) Fungi
- D) Parasites

9. Where are microorganisms found in the environment?

- A) Only in laboratories
- B) Only in the ocean
- C) Almost everywhere on Earth
- D) Only in the human body

10. Which of these is a microscopic organism that lives in water and can perform photosynthesis?

- A) Algae
- B) Protozoa
- C) Virus
- D) Bacteria

11. What is the term for microorganisms that cause disease?

- A) Antibiotics
- B) Probiotics
- C) Pathogens
- D) Enzymes

12. Which of these is NOT a microorganism?

- A) Virus
- B) Bacterium
- C) Mushroom
- D) Protozoan

13. Mold belongs to which group of organisms?

- A) Bacteria
- B) Fungi
- C) Viruses
- D) Archaea

14. What is the primary way that viruses reproduce?

- A) By splitting in half
- B) By infecting a host cell and using its machinery
- C) By absorbing sunlight
- D) By eating other bacteria

15. Which organ in the human body contains a large community of beneficial bacteria that help us stay healthy?

- A) Heart
- B) Lungs
- C) Intestines
- D) Kidneys

16. What do we call a scientist who studies microorganisms?

- A) Geologist
- B) Microbiologist
- C) Astronomer
- D) Botanist

17. Which structure do some bacteria use to help them move?

- A) Cilia
- B) Flagella
- C) Roots
- D) Wings

18. Which of the following is a way to prevent the spread of harmful bacteria?

- A) Washing hands with soap
- B) Touching eyes
- C) Sharing food
- D) Sneezing without covering

19. What is the jelly-like substance inside a cell called?

- A) Cytoplasm
- B) Nucleus
- C) Wall
- D) Membrane

20. Why are some bacteria considered 'decomposers'?

- A) They create new soil
- B) They break down dead plant and animal matter
- C) They eat plastic
- D) They grow only in the sun

21. Which is the smallest type of microorganism?

- A) Bacteria
- B) Yeast
- C) Virus
- D) Protozoa

22. What is the role of the cell wall in bacteria?

- A) To store water
- B) To provide structural support and protection
- C) To help the bacteria see
- D) To digest food

23. Which of these is a product made using fermentation by bacteria?

- A) Yogurt
- B) Orange juice
- C) Bread
- D) Bottled water

24. How do viruses differ from bacteria?

- A) Viruses are larger
- B) Viruses are not considered living cells
- C) Viruses only live in soil
- D) Viruses are plants

25. What gas do yeast cells release that makes dough rise?

- A) Oxygen
- B) Carbon dioxide
- C) Nitrogen
- D) Helium